## Abstract Submitted for the MAR06 Meeting of The American Physical Society

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Field dependence of RF susceptibility in the vicinity of a ferromagnetic transition in single crystals CeAgSb<sub>2</sub> R. PROZOROV, M.D. VANNETTE, S.A. LAW, S.L. BUD'KO, P.C. CANFIELD, Ames Laboratory and Department of Physics and Astronomy, Iowa State University, Ames, Iowa 50011 — A 10 MHz resonant technique was used to study ferromagnetic transition in single crystals CeAgSb<sub>2</sub>. Detailed measurements of field and temperature dependencies of the dynamic susceptibility in the vicinity of the ordering temperature were performed. It was found that a sharp peak in zero-field response rapidly smears out in a weak ( $\sim 100$  Oe) magnetic field. Obtained results are compared to DC magnetic susceptibility and resistivity, - both showing no similar effect. The possible relation our measurements to study dynamics of a ferromagnetic transition is discussed.

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